



40-1372.fm Page 1 Tuesday, August 10, 1999 3:25 PM



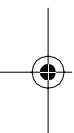
Cat. No. 40-1372

**OWNER'S MANUAL**

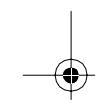
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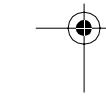
# AMX-25

**900 MHz Wireless Amplified Speakers**



**OPTIMUS®**





## FEATURES

Your Optimus 900 MHz Wireless Amplified Speakers bring you the latest in wireless speaker technology. Operating in the 900 MHz band, this speaker system's signals easily travel through walls and floors, delivering high-quality stereo sound to almost anywhere in or around your home. Now you do not need to place the speakers in the same room as your stereo system to hear your favorite programs.

The system includes a transmitter that connects to your audio source, and two speakers that receive signals from the transmitter.

The speaker system's features include:

**Two-Way, Bass Reflex Speaker Design** — provides excellent sound reproduction from even the most demanding audio sources.

**Bass Boost** — adds a deeper, richer bass sound.

**10-Watt Amplifier** — produces clear sound throughout the high and low frequency ranges.

**Optional Speaker Bracket** — (available through RadioShack Unlimited) lets you easily mount your speakers on the wall.

**Charger Jack** — lets you charge the PRO-100 Wireless Headphones.

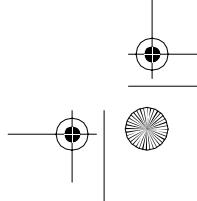
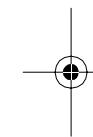
## THE FCC WANTS YOU TO KNOW

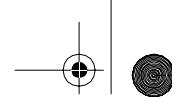
Your speaker system might cause TV or radio interference even when it is operating properly. To determine whether your speaker system is causing the interference, unplug your speaker system's transmitter. If the interference goes away, your speaker system is causing it.

Try to eliminate the interference by:

- Moving your speakers away from the receiver
- Connecting your speakers to outlets that are on a different electrical circuit from the receiver
- Contacting your local RadioShack store for help

**Note:** Your speakers are subject to interference from other 900 MHz devices such as wireless headphones, cordless phones, or other wireless speakers that operate on the same frequencies. If you experience interference, try moving the speakers away from the other devices.





## PREPARATION

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### INSTALLING THE TRANSMITTER

#### Connecting to Your Audio Source

You can connect the transmitter to your audio source's left and right audio output jacks or its headphones jack.

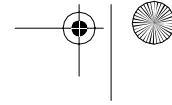
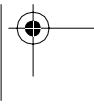
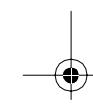
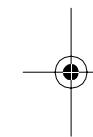
**Caution:** Do not connect the transmitter to the audio source's speaker output. Doing so could damage the transmitter and audio source.

1. Connect one end of the supplied audio patch cord to the transmitter's **AUDIO IN** jacks (white plug to L and red plug to R).
  
2. If you are using your audio source's audio output jacks, connect the white and red plugs at the other end of the patch cord directly to the audio source's corresponding left and right audio jacks (white plug to left and red plug to right).

If you are using your audio source's stereo headphones jack, connect the white and red plugs at the other end of the patch cord to the white and red phono jacks on the supplied Y-cable.

If your audio source has a  $\frac{1}{8}$ -inch headphones jack, connect the  $\frac{1}{8}$ -inch stereo plug on the other end of the Y-cable directly to the audio source's  $\frac{1}{8}$ -inch headphones jack.

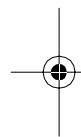
**Note:** If your audio source has a  $\frac{1}{4}$ -inch headphones jack, use the supplied  $\frac{1}{8}$ -to- $\frac{1}{4}$ -inch stereo adapter.





## Connecting to Power

Plug the supplied AC adapter's small straight barrel plug into the transmitter's **DC 18V** jack. Then plug the adapter into a standard AC outlet.



### Cautions:

- The transmitter's supplied AC adapter (in a box marked **FOR TRANSMITTER**) provides 18 volts and at least 150 millamps, and its plug's center tip is positive. Using an adapter that does not meet these specifications could damage the adapter or the transmitter.
- The **CHARGER** jack on the transmitter is for charging the RadioShack PRO-100 Wireless Headphones (Cat. No. 33-1145). Do not plug any other device into this jack.

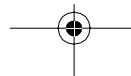
## INSTALLING THE SPEAKERS

Select a location for each speaker that is near an AC outlet.

**Caution:** Each speaker's supplied AC adapter (in a box marked **FOR SPEAKER**) provides 15 volts and at least 800 millamps, and its plug's center tip is positive. Using an adapter that does not meet these specifications could damage the adapter or the speaker.

Follow these steps to install the speakers.

1. Turn off both speakers by rotating their **POWER/VOL** knobs fully counterclockwise until they click.
2. Set each speaker's mode switch as follows:  
**L** — For the left stereo speaker  
**R** — For the right stereo speaker  
**MONO** — If your source is mono
3. Plug the AC adapter's large right-angle barrel plug into the speaker's **DC 15V 800mA** jack.
4. Plug the AC adapter into a standard AC outlet.





## OPERATION

Follow these steps to use your speakers.

1. Turn on your audio source.
2. Rotate the transmitter's **LEVEL** all the way to the right (minimum setting).

3. If you connected the transmitter to an audio source's LINE OUTPUT jack (or a jack that is not controlled by the audio source's volume control), slowly rotate **LEVEL** to the left until the indicator at the front of the transmitter just starts to flicker.

If you connected the transmitter to an audio source's headphones jack (or jack that is controlled by the audio source's volume control), set the audio source's volume to the desired level first (about midway), then slowly rotate **LEVEL** to the left until the indicator at the front of the transmitter just starts to flicker.

**Note:** Some audio sources might not make the indicator flicker. For these sources, simply rotate **LEVEL** all the way to the left.

4. Rotate each speaker's **POWER/VOL** knob clockwise until it clicks and you hear the program source or hissing.

5. Slowly rotate **TUNING** on each speaker until the indicator on the front of each speaker lights steadily.

### Notes:

- When the indicator lights steadily, the speaker is tuned to the same frequency being transmitted by the transmitter.
- If reception is poor, even when the speakers are near the transmitter, try either raising the transmitter to a position higher than the speakers or moving it away from the audio source.
- When transmitting over long distances, the signal might get weaker and the indicator might dim. When this happens, your speakers continue to operate but receive the signals in monaural instead of stereo.

6. Rotate each speaker's **POWER/VOL** knob to a comfortable listening level.

**Note:** Make sure you set both speakers' **POWER/VOL** knobs to the same level so the stereo sounds are properly balanced between the two speakers.



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7. Set **BASS** on the back of each speaker to **ON** for a deeper, richer bass sound.

Be sure to turn off the speakers when you are not using them.

If you hear distorted sound, check these things:

- Adjust **TUNING** on the speakers
- Change the position of the transmitter
- Rotate **FREQ. ADJUST** on the transmitter and then adjust **TUNING** until the interference goes away
- Adjust **LEVEL** on the transmitter so the indicator at the front of the transmitter occasionally flickers

## ADJUSTING THE FREQUENCY

If you receive interference from other devices, you might be able to reduce it by adjusting the speaker's operating frequency. Simply rotate **FREQ. ADJUST** on the transmitter, then rotate **TUNING** on each speaker until the audio is free from interference.

## IF YOU HAVE A PROBLEM

If you cannot get sound once you have connected the system, check these things:

- Make sure you rotate each speaker's **POWER/VOL** knob clockwise until it clicks so the speakers are turned on
- Be sure the AC adapters are plugged in and have power
- Be sure the audio source is turned on and tuned to an active frequency
- If you have connected to jacks that are controlled by the audio source's volume control, be sure the source's volume control is turned up
- Adjust the speaker's volume control
- Adjust **TUNING** on the speakers
- Change the position of the transmitter

If you still have a problem with the speaker system, see your local RadioShack store for assistance.



## CARE AND MAINTENANCE

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Your Optimus 900 MHz Wireless Amplified Speakers are an example of superior design and craftsmanship. The following suggestions will help you care for your speakers so you can enjoy them for years.



Keep the speakers dry. If they get wet, wipe them dry immediately. Liquids might contain minerals that can corrode the electronic circuits.



Use and store the speakers only in normal temperature environments. Temperature extremes can shorten the life of electronic devices and distort or melt plastic parts.



Handle the speakers gently and carefully. Dropping them can damage the circuit boards and can cause the speakers to work improperly.



Keep the speakers away from dust and dirt, which can cause premature wear of parts.



Wipe the speakers with a damp cloth occasionally to keep them looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the speakers.

Modifying or tampering with your speaker system's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your speaker system is not operating as it should, take it to your local RadioShack store for assistance.



## SPECIFICATIONS

### TRANSMITTER

Operating Frequency Range ..... 912.5–914.5 MHz  
Power Source ..... 18V DC, 150 millamps

### SPEAKERS

Frequency Response ..... 50 Hz–15 kHz  
S/N Ratio ..... 55 dB  
Stereo Separation ..... ≥ 20 dB  
Audio Distortion ..... ≤ 2%  
Operating Range ..... 150 Feet (Open Field)  
Automatic Frequency Control (AFC) ..... More than ±150 kHz  
Tuning Range ..... ≥ 913.5 ± 1.25 MHz  
Minimum Volume Hum ..... < 2mV  
Bass Boost Effect (100 Hz) ..... 8 ± 2 dB  
Power ..... 10 Watts RMS  
Power Source ..... 15V DC, 800 millamps  
Speaker Elements ..... 2-Inch Tweeter, 4-Inch Woofer

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

### SUPPLIED ACCESSORIES

Audio Patch Cord	1/8-to-1/4-inch Stereo Adapter
Y-Cable	AC adapters

#### RadioShack Limited Warranty

This product is warranted against defects for 90 days from date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. Within this period, we will repair it without charge for parts and labor. Simply bring your RadioShack sales slip as proof of purchase date to any RadioShack store. Warranty does not cover transportation costs. Nor does it cover a product subjected to misuse or accidental damage.

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